

IN THE CLAIMS:

Please **AMEND** claims 1, 19 and 20 in accordance with the following:

1. **(CURRENTLY AMENDED)** An information storage medium which stores data recorded using a waveform, comprising:

a first state corresponding to a recording pattern of the waveform; and

a second state corresponding to an erase pattern of the waveform,

wherein:

the erase pattern comprises a multi-pulse having with a power level of a leading pulse of the erase pattern set at a low level of the multi-pulse and a power level of a trailing pulse between an end point of the erase pattern and a start point of a leading pulse of the recording pattern of the erase pulse is set at a high level of the multi-pulse, and

the recording pattern and the erase pattern are concatenated by a cooling pulse of the waveform.

2. **(ORIGINAL)** The information storage medium of claim 1, wherein:

the first state is a mark formed by a first level of an NRZI data signal, and

the second state is a space formed by a second level of the NRZI data signal.

3. **(ORIGINAL)** The information storage medium of claim 1, wherein:

the recording pattern comprises another multi-pulse, and

the cooling pulse extends from the multi-pulse of the recording pattern to the multi-pulse of the erase pattern.

4. **(PREVIOUSLY PRESENTED)** An information storage medium which stores data recorded using a waveform, comprising:

a first state corresponding to a recording pattern of the waveform; and

a second state corresponding to an erase pattern of the waveform,

wherein:

the recording pattern comprises a first multi-pulse having a plurality of first pulses,

the erase pattern comprises a second multi-pulse having a plurality of second pulses, and

a first one of the first pulses of the recording pattern being adjusted according to a property of the last one of the second pulses of the erase pattern.

5. **(PREVIOUSLY PRESENTED)** The information storage medium of claim 4, wherein

the waveform further comprises a first cooling pulse as a portion of the recording pattern and a second cooling portion as a portion of the erase pattern.

6. **(PREVIOUSLY PRESENTED)** The information storage medium of claim 1, wherein the waveform includes a pulse of the recording pattern adjusted according to a pulse of the multi-pulse of the erase pattern.

7. **(PREVIOUSLY PRESENTED)** The information storage medium of claim 1, wherein the data recorded using the waveform is modulated according to a Run Length Limited (RLL)(1, 7).

8. **(PREVIOUSLY PRESENTED)** The information storage medium of claim 4, wherein the data recorded using the waveform is modulated according to a Run Length Limited (RLL)(1, 7).

9. **(PREVIOUSLY PRESENTED)** The information storage medium of claim 1, wherein: the erase pattern is recorded sequentially after the recording pattern, the recording pattern comprises another multi-pulse, and a first one of the another multi-pulses of the recording pattern is adjusted to have a power that is other than a power of a first one of the multi-pulses of the erase pattern.

10. **(PREVIOUSLY PRESENTED)** The information storage medium of claim 1, wherein: the erase pattern is recorded sequentially after the recording pattern, the recording pattern comprises another multi-pulse, and a first one of the another multi-pulses of the recording pattern is adjusted to have a power that is equal to a power of a first one of the multi-pulses of the erase pattern.

11. **(PREVIOUSLY PRESENTED)** The information storage medium of claim 9, wherein the multi-pulse of the erase pattern has a first pulse power and a second pulse power greater than the first pulse power.

12. **(PREVIOUSLY PRESENTED)** The information storage medium of claim 10, wherein the multi-pulse of the erase pattern has a first pulse power and a second pulse power greater than the first pulse power, and the power of the first one of the multi-pulses of the erase pattern

is equal to the first pulse power.

13. **(PREVIOUSLY PRESENTED)** The information storage medium of claim 9, wherein the multi-pulse of the erase pattern has a first pulse power and a second pulse power greater than the first pulse power, and the power of the first one of the another multi-pulses of the recording pattern is equal to the first pulse power.

14. **(PREVIOUSLY PRESENTED)** The information storage medium of claim 9, wherein the another multi-pulse of the recording pattern further comprises a recording pulse having a recording power greater than the power of the first one of the pulses of the recording pattern.

15. **(PREVIOUSLY PRESENTED)** The information storage medium of claim 10, wherein the another multi-pulse of the recording pattern further comprises a recording pulse having a recording power greater than the power of the first one of the pulses of the recording pattern.

16. **(PREVIOUSLY PRESENTED)** The information storage medium of claim 1, wherein the cooling pulse is concatenating and included in the recording and erase patterns and has a cooling power less than a power of a first pulse of the multi-pulse of the erase pattern.

17. **(PREVIOUSLY PRESENTED)** The information storage medium of claim 9, wherein the cooling pulse has a cooling power less than the power of a last pulse of the another multi-pulse of the recording pattern and a power of the first pulse of the multi-pulse of the erase pattern.

18. **(PREVIOUSLY PRESENTED)** The information storage medium of claim 1, wherein the cooling pulse has a cooling power less than a recording power of the recording pattern and a power of a first pulse of the multi-pulse of the erase pattern.

19. **(CURRENTLY AMENDED)** An information storage medium which stores data recorded using a waveform, comprising:

a first state corresponding to a recording pattern of the waveform; and

a second state corresponding to an erase pattern of the waveform,

wherein:

the erase pattern comprises a multi-pulse having a power level of a leading pulse

of the erase pattern set to a high level of the multi-pulse and a power level of a ~~trailing-pulse~~
between an end point of the erase pattern and a start point of a leading pulse of a recording
pattern is set to a high level of the multi-pulse, and

the recording pattern and the erase pattern are concatenated by a cooling pulse
of the waveform.

20. (CURRENTLY AMENDED) An information storage medium which stores data
recorded using a waveform, comprising:

a first state corresponding to a recording pattern of the waveform; and

a second state corresponding to an erase pattern of the waveform,

wherein:

the erase pattern comprises a multi-pulse having a power level of a leading pulse
of the erase pattern set to a low level of the multi-pulse and a power level of a ~~trailing-pulse~~
between an end point of the erase pattern and a start point of a leading pulse of the recording
pattern is set to a low level of the multi-pulse, and

the recording pattern and the erase pattern are concatenated by a cooling pulse
of the waveform.